

AMENDMENTS TO THE CLAIMS

Please amend the paragraph beginning at page 3, line 23, as follows:

Commonly assigned U.S. Patent Application Serial Number 10/632,510,
filed August 1, 2003, ~~_____ (Attorney Docket Number DP-307572)~~

entitled "Process for preparing an over molded motor stator structure" which is hereby incorporated by reference herein in its entirety, discloses and claims a process for preparing an over molded motor stator structure. The process includes:

constructing a bobbin assembly around which a coil is wound;

constructing an intermediate stator assembly including assembling the bobbin assembly to a stator core comprising a plurality of stator laminations having an internal diameter and an external diameter;

disposing the intermediate stator assembly into a mold fixture comprising a cover half and an ejector half that includes an internal cavity for receiving the intermediate stator assembly, an inner ejector core, and a moveable plate;

loading a bearing carrier into the mold fixture;

closing the cover half over the ejector half of the mold thereby causing the moveable plate to travel within the mold;

injecting a unitizing material into the mold fixture to encapsulate the intermediate stator assembly and form an over molded motor stator structure including a unitized stator assembly and a molded main body;

the moveable plate traveling within the mold fixture so as to allow the unitizing material to only fill selected areas and achieve an over molded motor stator structure wherein the internal diameter and the external diameter of the stator laminations is exposed.

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows: (OR A LISTING OF CLAIMS FOLLOWS)

1. (Currently Amended) An over molded motor stator structure comprising:
a stator assembly including ~~a bobbin assembly around which a coil is wound assembled to~~ a stator core comprising a plurality of stator laminations having an internal diameter and an external diameter, and a bobbin assembly comprising a bobbin and a wire coil about the bobbin, said bobbin assembly being assembled to the stator core adjacent the internal diameter; and
a molded main body formed of said stator assembly being encapsulated by a unitizing material encapsulating the stator core assembly to form the ~~which forms an over molded motor stator structure including an integral unitized stator assembly and a molded main body;~~
wherein said stator assembly is encapsulated such that said internal diameter and said external diameter of said stator core is are exposed.
2. (Original) The over molded motor stator structure of claim 1, wherein said molded main body comprises at least one integral motor mounting portion.
3. (Original) The over molded motor stator structure of claim 1, wherein said molded main body comprises at least one integral sensor cavity.
4. (Original) The over molded motor stator structure of claim 1, wherein said molded main body includes a bearing pocket support.
5. (Original) The over molded motor stator structure of claim 1, wherein said over molded motor stator structure is suitable for use as molded without requiring additional machining processes.

6. (Original) An over molded motor comprising:
a rotor assembly comprising a central rotor portion on a rotor shaft, said rotor assembly being adapted for support by bearings located near end portions of said rotor shaft;
said rotor assembly being rotatably disposed into an over molded motor stator structure in accordance with Claim 1.

7. (Original) The over molded motor of claim 6, wherein said molded main body includes at least one integral motor mounting portion.

8. (Original) The over molded motor of claim 6, wherein said molded main body comprises at least one integral sensor cavity.

9. (Original) The over molded motor of claim 6, wherein said molded main body includes a bearing pocket support.

10. (Original) The over molded motor of claim 6, wherein said over molded motor stator structure is suitable for use as molded without requiring additional machining processes.